SEMINAR

Plasma Physics Division
Naval Research Laboratory

Speaker: **Brian T. Welsch**
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Title: **The Cancellation of Magnetic Flux at the Solar Photosphere: Observations and Theory**

Date: **Thursday, 30 September 2004**

Time: **10:30 a.m.**

Location: **Bldg. 71, Room 1440 (Door M, North Side)**

Abstract

Magnetic flux "cancellation" is probably the photospheric manifestation of magnetic reconnection in higher atmospheric layers. Observations imply such cancellation is necessary for the formation of solar prominences/filaments, and numerical studies suggest that continued cancellation can drive the eruptions of these structures. I will present both the results of numerical simulations of prominence formation via cancellation, as well as preliminary results of an observational study of flux cancellation in an active region that later erupted.

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